

CURRENT TOPICS IN CELLULAR REGULATION

EDITED BY

BERNARD L. HORECKER and EARL R. STADTMAN

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Current Topics In Cellular Regulation Volume 16

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Current Topics In Cellular Regulation Volume 16:

Current Topics in Cellular Regulation Bernard L. Horecker, Earl R. Stadtman, 2014-06-28 Current Topics in Cellular Regulation Volume 25 is a collection of papers that deals with GTP the central regulator of cellular anabolism and the quantitative approach to metabolic control Other papers describe the inactivation and aldolases by limited proteolysis by lysosomal cathepsin M the regulatory functions of proline pyrroline 5 carboxylic acid as well as the characteristics of a hormonal regulation of amino acid transport One paper suggests that GTP possibly acting through high guanine nucleotide energy charge acts to stimulate a wide variety of anabolic processes involved in cell growth or proliferation Another paper proposes that lysosomes are responsible for the degradation of proteins and other macromolecules and in regulating cytosolic enzymes This action is due to the presence of selected proteinases located on the outer lysosomal surface that are active at neutral pH and also which catalyze only limited proteolysis of cytosolic proteins One paper describes the characteristics and hormonal regulation of a specific transport system for neutral amino acids namely the System A mediated transport The collection can prove beneficial for biochemists micro biologists bio physicists cellular researchers and academicians involved in the study of cellular biology *Regulation of Carbohydrate Metabolism*(1985) Beitner, 2018-04-17 First Published in 1985 A collaboration of the latest research on regulation of carbohydrate metabolism **Cell Chemistry and Physiology: Part I** Edward Bittar, 1996-01-04 This is the first of a 4 volume module that is an introduction to the study of cell chemistry and physiology It is not intended to be encyclopedic in nature but rather a general survey of the subject with an emphasis on those topics that are central to an understanding of cell biology and those that are certain to become of increasing importance in the teaching of modern medicine We have followed what appeared to as to be the logical divisions of the subject beginning with proteins Allewell and her colleagues stress the point that proteins fold spontaneously to form complex three dimensional structures and that some of them unfold with the help of proteins called chaperones Michaelis Menten kinetics are shown by Nelsestuen to describe the behaviour of enzymes in the test tube The formalism is particularly useful in the search for agents of therapeutic value as exemplified by methotrexate Uptake by mammalian cells of substrates and their metabolic conversions are discussed by van der Vusse and Reneman However both Welch and Savageau expound the view that the cell is not simply a bagful of enzymes The biologist is urged by Savageau to abandon Michaelis Menten formalism and apply the Power Law The biologist is also told that the approach to arriving at a theory of metabolic control would have to be one of successive approximations requiring the use of the computer Information gained from comparative biochemistry is shown by Storey and Brooks to have shed new light on mechanisms of metabolic rate depression and freeze tolerance and to be applicable to organ transplantation technology We are reminded that enzyme adaptation is partly the result of the presence of a hydrating shell of vicinal water that stabilises conformation of the enzyme Vicinal water according to Drost Hausen and Singleton lies adjacent to most solids and protein interfaces The kinks or breaks observed in the slope of

the Arrhenius plot are attributed to structural changes in vicinal water Regulation of cell volume is shown by Hempling to involve regulation of cell water It could be that the osmo receptor or volume detection system is a protein that links the cytoskeleton to specific K and C1 channels Additionally it is interesting that aquaporins which are water channel forming membrane proteins are now known to exist in both renal and extra renal tissues One of the renal porins is affected by vasopressin We then pass on to protein synthesis Rattan and other important topics including protein glycosylation Hounsell methylation Clarke ADP ribosylation Pearson and prenylation Gelb Among the four types of lipids attached to membrane proteins are the prenyl groups Ford and Gross in their chapter on lipobiology drive home the point that there is an accumulation of acyl carnitine and lysophospholipids during myocardial infarction **Books in Print Supplement**, 1994

Mobility and Proximity in Biological Membranes S. Damjanovich, 2018-01-18 Cell surface membranes have long been characterized as two dimensional fluids whose mobile components are randomized by diffusion in the plane of the membrane bilayer Recent research has indicated that cell surface membranes are highly organized and ordered and that important functional units of membranes appear as arrays of interacting molecules rather than as single freely diffusing molecules Mobility and Proximity in Biological Membranes provides an overview of the results obtained from biophysical methods for probing the organization of cell surface membranes These results are presented in the context of detailed treatments of the theory and the technical demands of each of the methods The book describes a versatile and easily applied mode for investigating molecular proximities in plasma membranes in a flow cytometer Its analysis of lipid fluidity and viscosity of membranes and the rotational mobility of proteins offers intimate insight into the physical chemistry of biological membranes The electrophysiology of lymphocytes is presented with focus on its importance in different diseases New techniques are described and new data new possibilities and future trends are presented by world experts This book s chapters can serve both as guides to the existing literature and as starting points for new experiments and approaches associated with problems in membrane function **Advances in Enzymology and Related Areas of Molecular Biology**

Alton Meister, 2009-09-15 Advances in Enzymology and Related Areas of Molecular Biology is a seminal series in the field of biochemistry offering researchers access to authoritative reviews of the latest discoveries in all areas of enzymology and molecular biology These landmark volumes date back to 1941 providing an unrivaled view of the historical development of enzymology The series offers researchers the latest understanding of enzymes their mechanisms reactions and evolution roles in complex biological process and their application in both the laboratory and industry Each volume in the series features contributions by leading pioneers and investigators in the field from around the world All articles are carefully edited to ensure thoroughness quality and readability With its wide range of topics and long historical pedigree Advances in Enzymology and Related Areas of Molecular Biology can be used not only by students and researchers in molecular biology biochemistry and enzymology but also by any scientist interested in the discovery of an enzyme its properties and its

applications *Proceedings of the National Academy of Sciences of the United States of America* National Academy of Sciences (U.S.),1992 The Proceedings of the National Academy of Sciences PNAS publishes research reports commentaries reviews colloquium papers and actions of the Academy PNAS is a multidisciplinary journal that covers the biological physical and social sciences *Pyruvate Carboxylase* D.B. Keech,J.C. Wallace,2018-10-24 This book is a welcome source of information on this enzyme which is vitally important to many forms of life Each chapter or section of each volume is not written primarily for those specializing in that narrow area but rather to provide a coherent and integrated summary of that aspect got those working on other quite different facets of the same enzyme **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1976 Biochemical Medicine ,1985 *Cumulated Index Medicus* ,1997

Books in Print ,1994 **Medical Books and Serials in Print** ,1984 *Medical and Health Care Books and Serials in Print* ,1986 **Biomembranes** Gheorghe Benga,Joseph M. Tager,2012-12-06 Membrane research holds a central position in cell and molecular biology In recent years it has become clear that the study of membranes at the molecular level is of great importance not only to decipher all cellular processes but also to understand the alterations leading to abnormal cells including cancer cells and or to understand the action of various drugs This book covers the multidisciplinary approach of research in this area and the permanent need for information regarding recent advances It will serve both workers studying basic aspects of membrane structure and function as well as medically oriented scientists The selection of topics illustrating interconnections between basic and applied membrane biology will cross fertilize research in both groups **List of Annual Reviews of Progress in Science and Technology** ,1981 **Scientific and Technical Books and Serials in Print** ,1989 Journal of Cell Science ,1989 *Handbook of Neurochemistry* Abel Lajtha,1982 **Uniform Trade List Annual** ,1977

Unveiling the Magic of Words: A Report on "**Current Topics In Cellular Regulation Volume 16**"

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